

## EAST Search History

| Ref # | Hits | Search Query    | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|-----------------|---|------------------|---------|------------------|
| L1    | 58   | 549/461.icls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2006/05/25 08:50 |
| L2    | 250  | 549/461.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2006/05/25 08:50 |
| L3    | 266  | 546/284.7.ccls. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2006/05/25 08:50 |
| L4    | 334  | 546/281.1.ccls. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2006/05/25 08:51 |
| L5    | 289  | 549/43.ccls.    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2006/05/25 08:51 |
| L6    | 375  | 544/375.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2006/05/25 08:52 |
| L7    | 333  | 544/153.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2006/05/25 08:52 |
| L8    | 0    | l1 and l3       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2006/05/25 08:53 |
| L9    | 1    | l1 and l4       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2006/05/25 08:59 |

## EAST Search History

|     |    |  |   |     |     |                  |
|-----|----|--|---|-----|-----|------------------|
| L10 | 2  | I1 and I6  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON  | 2006/05/25 08:58 |
| L11 | 1  | I1 and I7  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON  | 2006/05/25 08:53 |
| L12 | 0  | I2 and I3  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON  | 2006/05/25 08:57 |
| L13 | 1  | I2 and I4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON  | 2006/05/25 08:59 |
| L14 | 14 | I2 and I6  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON  | 2006/05/25 08:59 |
| L15 | 21 | I2 and I7  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON  | 2006/05/25 09:02 |
| S1  | 0  | ("6031122" "6359163" "6392078" "RE37337").PN.).PN. | US-PGPUB;<br>USPAT                                    | OR  | OFF | 2005/12/01 06:40 |
| S2  | 4  | ("6031122" "6359163" "6392078" "RE37337").PN.      | US-PGPUB;<br>USPAT                                    | OR  | ON  | 2005/12/01 06:49 |
| S3  | 0  | 588/277.icls                                       | US-PGPUB;<br>USPAT                                    | OR  | ON  | 2005/12/01 06:50 |
| S4  | 0  | 588/277.ICLS                                       | US-PGPUB;<br>USPAT                                    | OR  | ON  | 2005/12/01 06:50 |
| S5  | 1  | 588/277.ICLS.                                      | US-PGPUB;<br>USPAT                                    | OR  | ON  | 2005/12/01 06:50 |
| S6  | 0  | 588/277ICLS.                                       | US-PGPUB;<br>USPAT                                    | OR  | ON  | 2005/12/01 06:50 |
| S7  | 1  | 588/277.ICLS.                                      | US-PGPUB;<br>USPAT                                    | OR  | ON  | 2005/12/01 06:51 |
| S8  | 0  | 588/277.cCLS.                                      | US-PGPUB;<br>USPAT                                    | OR  | ON  | 2005/12/01 06:51 |
| S9  | 0  | 588/277.CCLS.                                      | US-PGPUB;<br>USPAT                                    | OR  | ON  | 2005/12/01 06:52 |

## EAST Search History

|     |      |   |                    |     |    |                  |
|-----|------|---|--------------------|-----|----|------------------|
| S10 | 274  | 558/277.CCLS.                           | US-PGPUB;<br>USPAT | OR  | ON | 2005/12/01 06:53 |
| S11 | 208  | 558/277.iCLS.                           | US-PGPUB;<br>USPAT | OR  | ON | 2005/12/01 06:55 |
| S12 | 0    | (RYU-yong OR Gelbein-Abraham).<br>IN.   | US-PGPUB;<br>USPAT | OR  | ON | 2005/12/01 06:59 |
| S13 | 0    | RYU-yong.IN. OR Gelbein-Abraham.<br>IN. | US-PGPUB;<br>USPAT | OR  | ON | 2005/12/01 06:59 |
| S14 | 0    | RYU-yong.IN.                            | US-PGPUB;<br>USPAT | OR  | ON | 2005/12/01 06:59 |
| S15 | 1565 | RYU.IN.                                 | US-PGPUB;<br>USPAT | OR  | ON | 2005/12/01 07:01 |
| S16 | 0    | RYU-y.IN.                               | US-PGPUB;<br>USPAT | OR  | ON | 2005/12/01 07:00 |
| S17 | 1565 | RYU.IN.                                 | US-PGPUB;<br>USPAT | OR  | ON | 2005/12/01 07:00 |
| S18 | 0    | Gelbein-Abraham.IN.                     | US-PGPUB;<br>USPAT | OR  | ON | 2005/12/01 07:00 |
| S19 | 55   | Gelbein.IN.                             | US-PGPUB;<br>USPAT | OR  | ON | 2005/12/01 07:01 |
| S20 | 4    | S17 AND S19                             | US-PGPUB;<br>USPAT | OR  | ON | 2005/12/01 07:02 |
| S21 | 0    | S20 <"20030312"                         | US-PGPUB;<br>USPAT | AND | ON | 2005/12/01 07:05 |
| S22 | 2    | S20 AND @pd<="20030312"                 | US-PGPUB;<br>USPAT | AND | ON | 2005/12/01 07:14 |
| S23 | 0    | S20 AND @pd<="2003"                     | US-PGPUB;<br>USPAT | AND | ON | 2005/12/01 07:15 |
| S24 | 2    | S20 AND @pd<="20030312"                 | US-PGPUB;<br>USPAT | AND | ON | 2005/12/01 07:15 |
| S25 | 3    | S20 AND @py<="2003"                     | US-PGPUB;<br>USPAT | AND | ON | 2005/12/01 07:20 |
| S26 | 0    | "ryu-yong.in"                           | US-PGPUB;<br>USPAT | AND | ON | 2005/12/01 07:21 |
| S27 | 0    | "ryu.in"                                | US-PGPUB;<br>USPAT | AND | ON | 2005/12/01 07:22 |
| S28 | 1565 | ryu.IN.                                 | US-PGPUB;<br>USPAT | AND | ON | 2005/12/01 07:22 |
| S29 | 1565 | ryu.iN.                                 | US-PGPUB;<br>USPAT | AND | ON | 2005/12/01 07:22 |
| S30 | 1565 | ryu.in.                                 | US-PGPUB;<br>USPAT | AND | ON | 2005/12/01 07:22 |
| S31 | 0    | ryu-yong.in.                            | US-PGPUB;<br>USPAT | AND | ON | 2005/12/01 07:22 |

## EAST Search History

|     |        |   |  |     |     |                  |
|-----|--------|---|--|-----|-----|------------------|
| S32 | 1565   | ryu.in.                                       | US-PGPUB;<br>USPAT                       | AND | ON  | 2005/12/01 07:23 |
| S33 | 162    | yong.in. S32                                  | US-PGPUB;<br>USPAT                       | AND | ON  | 2005/12/01 07:23 |
| S34 | 25     | j.in. AND S33                                 | US-PGPUB;<br>USPAT                       | AND | ON  | 2005/12/01 07:24 |
| S35 | 18     | S34 AND @ad<="20030312"                       | US-PGPUB;<br>USPAT                       | AND | ON  | 2005/12/01 07:26 |
| S36 | 4      | ("6031122" "6359163" "6392078" "RE37337").PN. | US-PGPUB;<br>USPAT                       | OR  | ON  | 2005/12/02 12:25 |
| S37 | 3      | ("4222944" "3759948" "5814651").PN.           | US-PGPUB;<br>USPAT                       | OR  | ON  | 2005/12/02 13:14 |
| S38 | 0      | ("WO2004089940").PN.                          | USPAT;<br>USOCR                          | OR  | OFF | 2005/12/02 13:17 |
| S39 | 0      | ("WO2004089940").PN.                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR  | OFF | 2005/12/02 13:18 |
| S40 | 0      | ("104821642").PN.                             | US-PGPUB;<br>USPAT                       | OR  | OFF | 2005/12/04 07:17 |
| S41 | 0      | ("104821642.pn").PN.                          | US-PGPUB;<br>USPAT                       | OR  | OFF | 2005/12/04 07:17 |
| S42 | 0      | ("10821642.pn").PN.                           | US-PGPUB;<br>USPAT                       | OR  | OFF | 2005/12/04 07:17 |
| S43 | 1      | "10821642"                                    | US-PGPUB;<br>USPAT                       | OR  | ON  | 2005/12/04 07:17 |
| S44 | 0      | WO037805                                      | US-PGPUB;<br>USPAT                       | OR  | ON  | 2005/12/04 12:35 |
| S45 | 0      | WO2004/037805                                 | US-PGPUB;<br>USPAT                       | OR  | ON  | 2005/12/04 12:35 |
| S46 | 512015 | WO 2004/037805                                | US-PGPUB;<br>USPAT                       | OR  | ON  | 2005/12/04 12:35 |
| S47 | 1      | 60/519,967                                    | US-PGPUB;<br>USPAT                       | AND | ON  | 2005/12/05 15:20 |
| S48 | 0      | 459/461.ccls.                                 | US-PGPUB;<br>USPAT                       | AND | ON  | 2005/12/06 08:03 |
| S49 | 172    | 549/461.ccls.                                 | US-PGPUB;<br>USPAT                       | AND | ON  | 2005/12/06 08:04 |
| S50 | 100    | 549/461.ccls. AND<br>@ad<="20031113"          | US-PGPUB;<br>USPAT                       | AND | ON  | 2005/12/06 08:06 |
| S51 | 50     | S50 AND dibenzofuran                          | US-PGPUB;<br>USPAT                       | AND | ON  | 2005/12/06 08:11 |
| S52 | 0      | S51 AND "548".ccls.                           | US-PGPUB;<br>USPAT                       | AND | ON  | 2005/12/06 08:12 |

## EAST Search History

|     |   |   |   |     |    |                  |
|-----|---|---|---|-----|----|------------------|
| S53 | 5 | S51 AND 548/444.ccls.                   | US-PGPUB;<br>USPAT                          | AND | ON | 2005/12/06 08:16 |
| S54 | 5 | S51 AND 548/444.ccls.                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/12/06 08:16 |
| S55 | 1 | "3846553".pn.                           | US-PGPUB;<br>USPAT                          | OR  | ON | 2006/05/11 11:14 |
| S56 | 1 | "532273".ap.                            | US-PGPUB;<br>USPAT                          | OR  | ON | 2006/05/11 11:16 |
| S57 | 0 | "532273".an.                            | US-PGPUB;<br>USPAT                          | OR  | ON | 2006/05/11 11:16 |
| S58 | 1 | "532273".ap.                            | US-PGPUB;<br>USPAT                          | OR  | ON | 2006/05/11 11:31 |
| S59 | 1 | "6110962".pn.                           | US-PGPUB;<br>USPAT                          | OR  | ON | 2006/05/11 11:31 |
| S60 | 3 | ("3759948" "3846553" "6110962").<br>PN. | US-PGPUB;<br>USPAT                          | AND | ON | 2006/05/22 14:53 |